plastiXs
A GLOBELUS Company

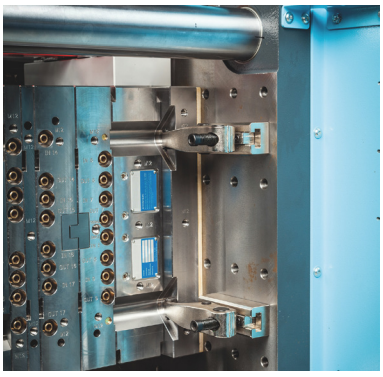
POWER SLIDING MOLD CLAMP

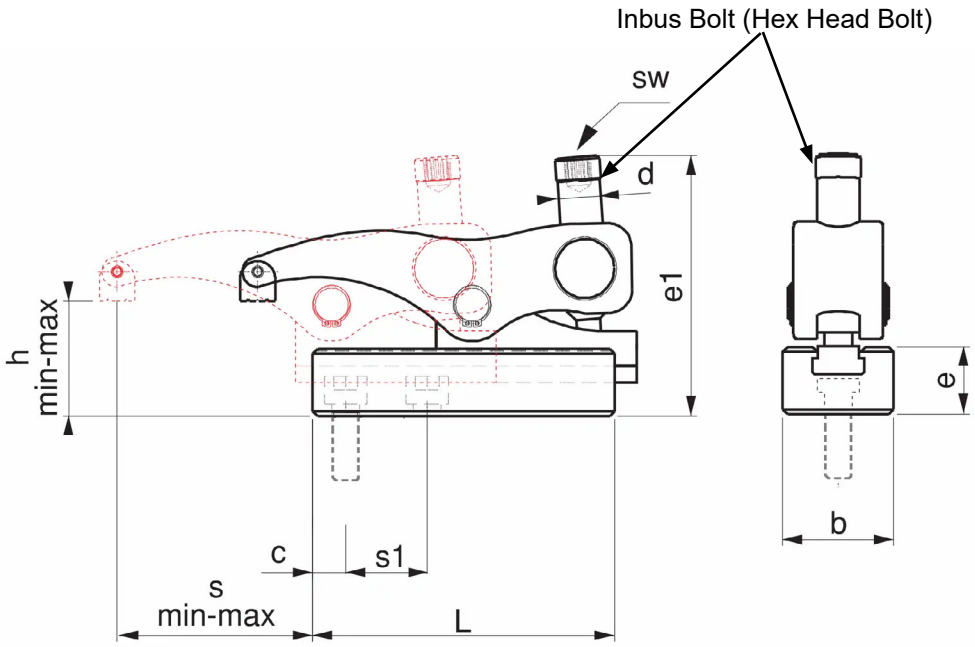
Power Sliding Mold Clamp

Facilitate Quicker Mold Changes

Features

- Can accommodate a range of different backplate sizes and thicknesses
- Perfect for clamping of injection molds
- For use with threaded or T-slot platens
- Clamp slides by virtue of integral T-slot
- Height blocks available upon request





Item#	Inbus Bolt Size (M) (not included)	h-Min	h-Max	S	e1	d	sw	L	e	b	c	Clamping Force	Weight (lbs)
SC-100	M10-M12	0	50	12-66	100	M14	8	104	35.5	38	13	1600 kg	4
SC-200	M12-M16	0	60	15-83	113	M18	10	128	38	48	16	2000 kg	10
SC-250	M16-M20	0	65	18-96	125	M20	12	140	42	55	18	2500 kg	10
SC-300	M20-M24	20	80	22-95	175	M24	12	178	55	74	24	5500 kg	20

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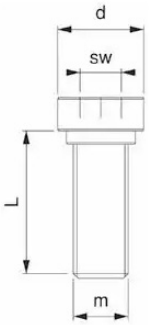
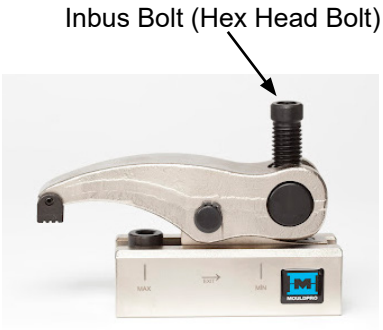
Inbus Bolt (Hex Head Bolt) for Power Sliding Mold Clamp

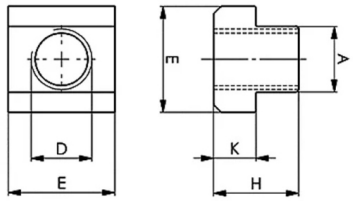




Item#	Size	Clamp Reference	m	L	d	SW
1120-310	1/2"	SC-100	M10	29	16.5	8
1120-312	3/8"	SC-100	M12	29	16.5	8
1130-412	1/2"	SC-200	M12	30	20.5	10
1130-416	5/8"	SC-200	M16	34	20.5	10
1150-516	3/4"	SC-250	M16	34	24.5	12
1150-518	5/8"	SC-250	M18	38	24.5	12
1150-520	5/8"	SC-250	M20	38	34.5	12
1160-620	1"	SC-300	M20	45	34	12
1160-624	1-1/4"	SC-300	M24	45	34	12
1160-724	1-1/4"	SC-300	M24	55	34	12

Material: 41 Cr 4 DIN
Quality: 10.9
Surface: Black Coating

T-Nut for Inbus Bolt for Power Sliding Mold Clamp

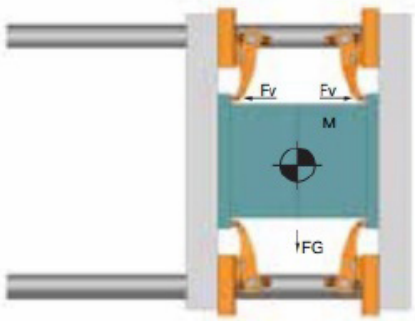


Item#	D x Nut	A	E	H	K
508-10X12	M10 x 12	11.7	18	14	7
508-12X14	M12 x 14	13.7	22	16	8
508-12X16	M12 x 16	15.7	25	18	9
508-12X18	M12 x 18	17.7	28	20	10
508-16X20	M16 x 20	19.7	32	24	12
508-16X22	M16 x 22	21.7	35	28	14
508-16X24	M16 x 24	23.7	40	32	16
508-16X28	M16 x 28	27.7	44	36	18
508-20X22	M20 x 22	21.7	35	28	14
508-20X24	M20 x 24	23.7	40	32	16
508-24X28	M24 x 28	27.7	44	36	18
508-24X36	M24 x 36	35.6	54	44	22

Material: Ck45 DIN
Hardness: 30-32 HRC
Surface: Black Coating

Clamp Calculation Guide

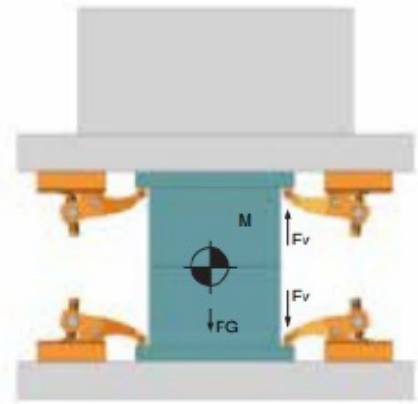
Power Clamp for Injection Molding



Formula Calculator

$\frac{M \times FG}{1000}$	= kN	$\frac{2500kg \times 9.81}{1000}$ = 24.52 kN
$\frac{kN}{\mu}$	= Result	$\frac{24.52}{0.14}$ = 175.14 kN
$\frac{Result}{Fv}$	= Number of Clamps	$\frac{175.14\ kN}{25\ kN}$ = 7 Clamps (use 8 pcs)

Power Clamp for Press Molding



Formula Calculator

$\frac{M \times FG}{1000}$	= kN	$\frac{5000kg \times 9.81}{1000}$ = 49.050 kN
$\frac{kN}{\mu}$	= Result (upper 60%) (lower 40%)	$\frac{49.05}{0.14}$ = 350.35 kN (60% upper = 210.21) (40% lower = 140.14)
$\frac{Result}{Fv}$	= Number of Clamps	$\frac{210.21\ kN\ (upper)}{25\ kN}$ = 8 Clamps
$\frac{Result}{Fv}$	= Number of Clamps	$\frac{140.14\ kN\ (lower)}{25\ kN}$ = 5.6 Clamps (use 6 pcs)

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Force Diagram